

10/019283

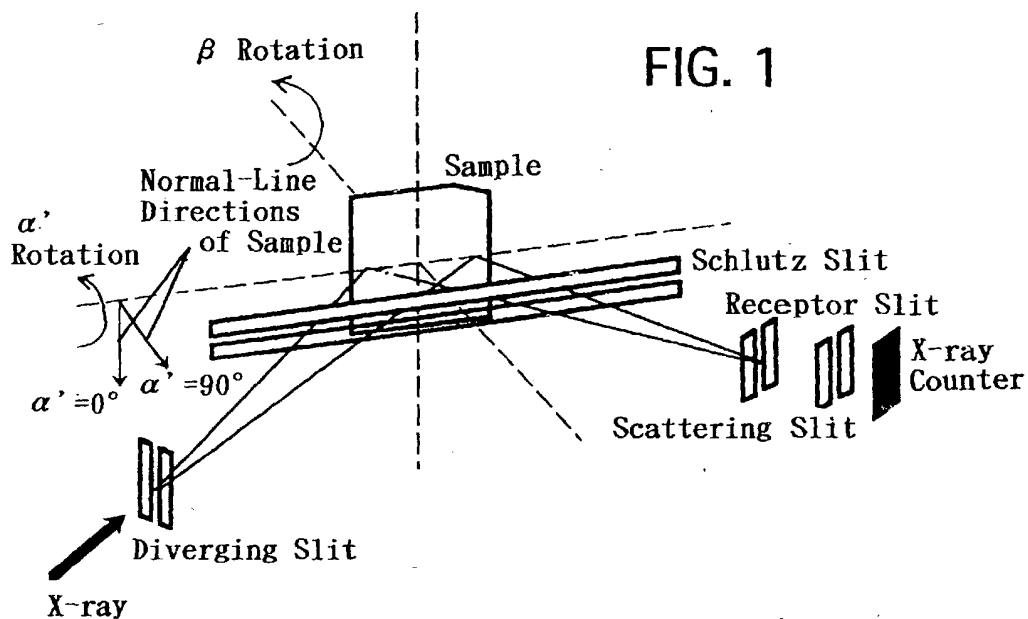
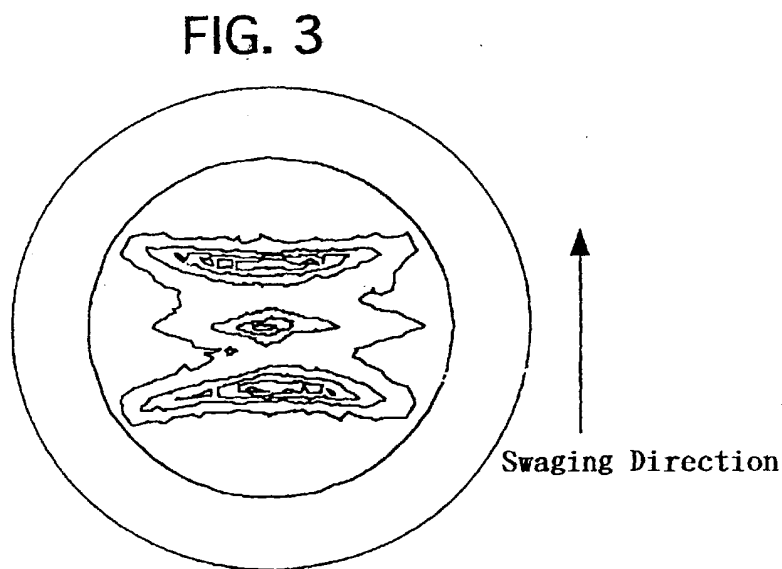


FIG. 1

Measurement of Polar Figure by Schlutz's Reflection Method



1 Scale: 1,000cps

(110) Polar Figure Obtained in Sample No. 1

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FIG. 2

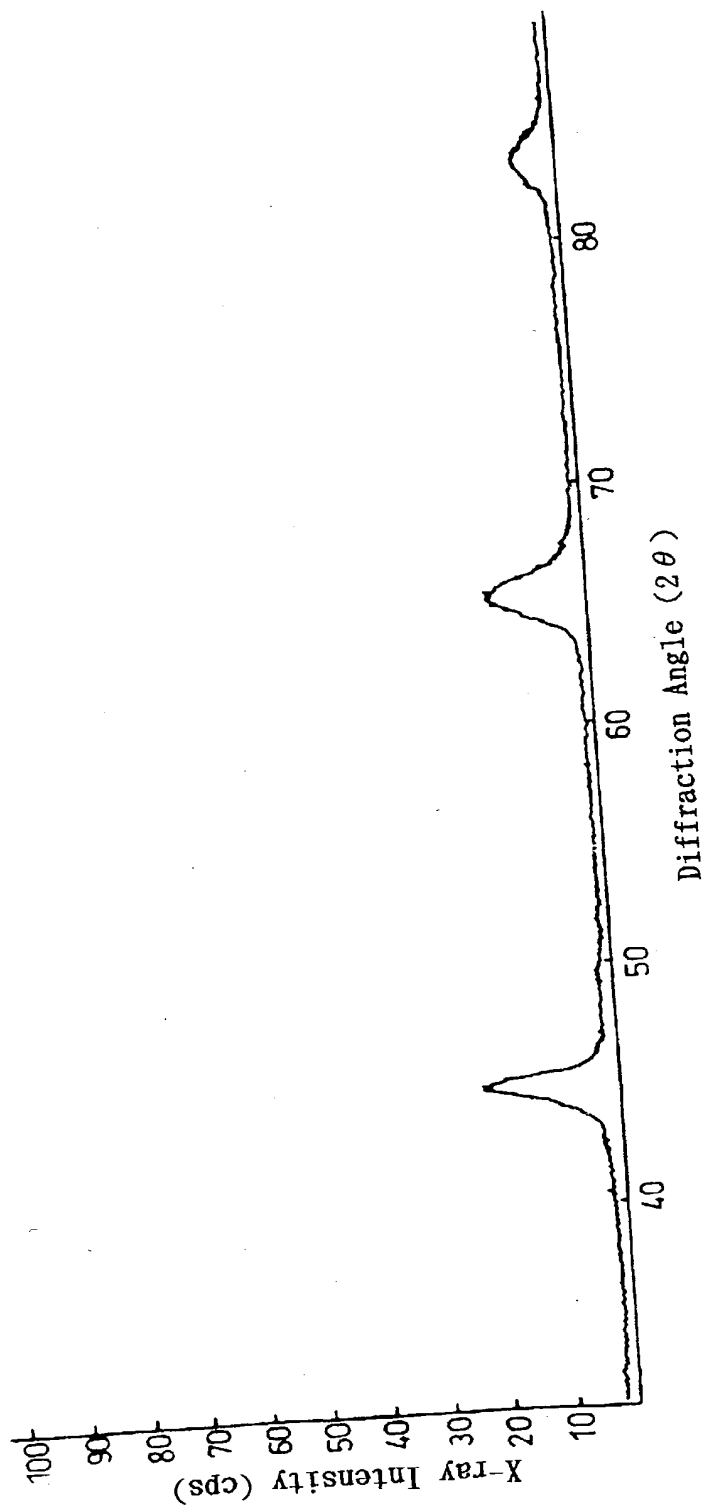
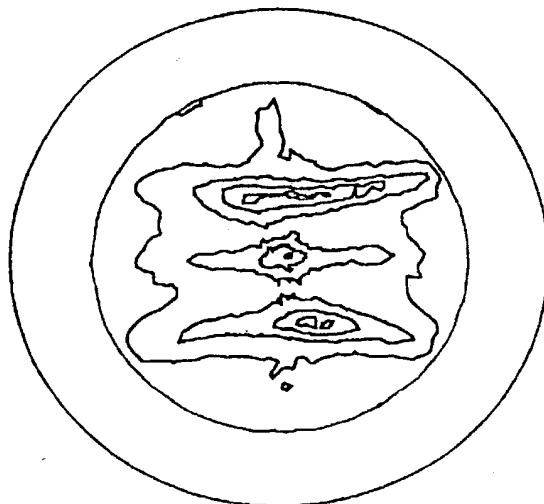


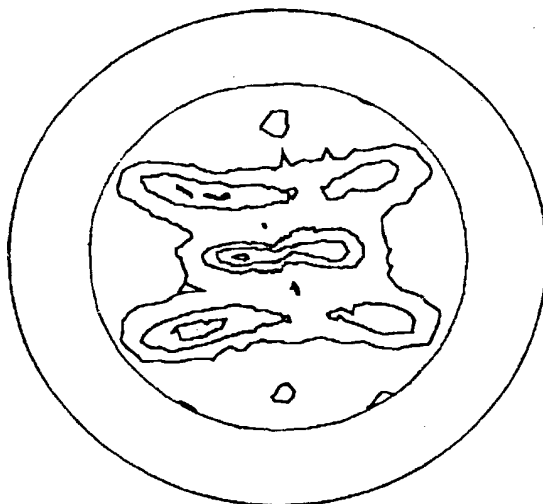
FIG. 4



1 Scale:1,000cps

(110) Polar Figure Obtained in Sample No. 4

FIG. 5

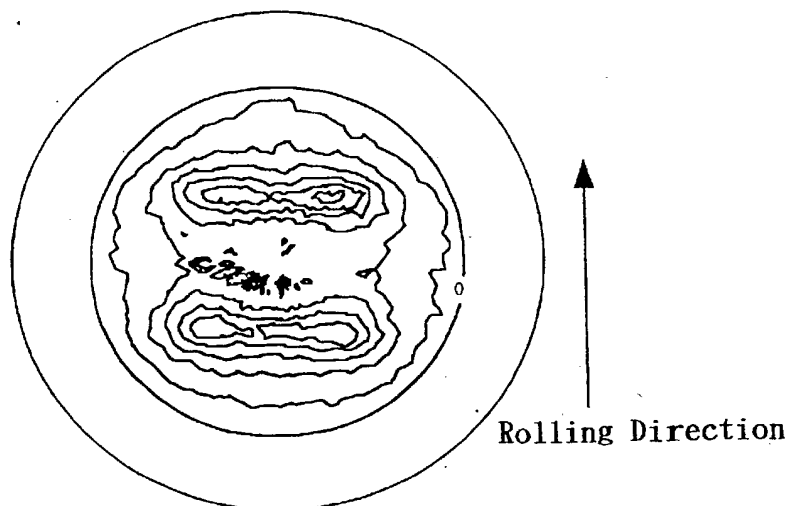


1 Scale:1,000cps

(110) Polar Figure Obtained in Sample No. 5

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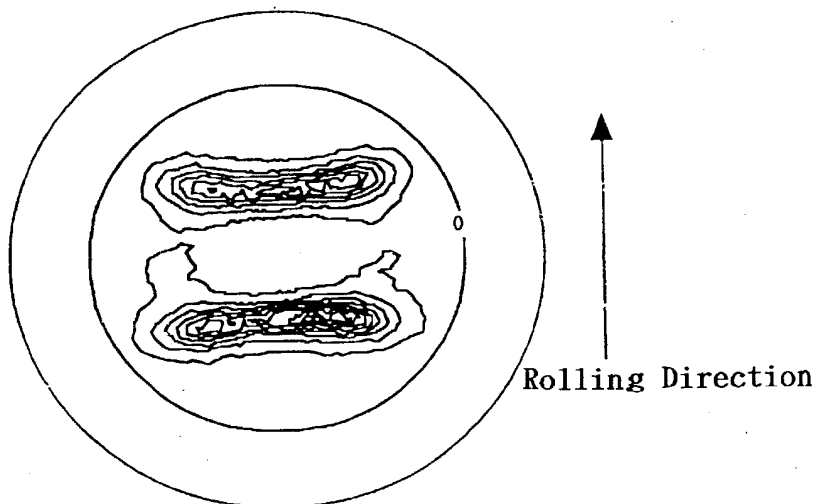
FIG. 6



1 Scale:500cps

(110) Polar Figure Obtained in Sample No. 2

FIG. 7



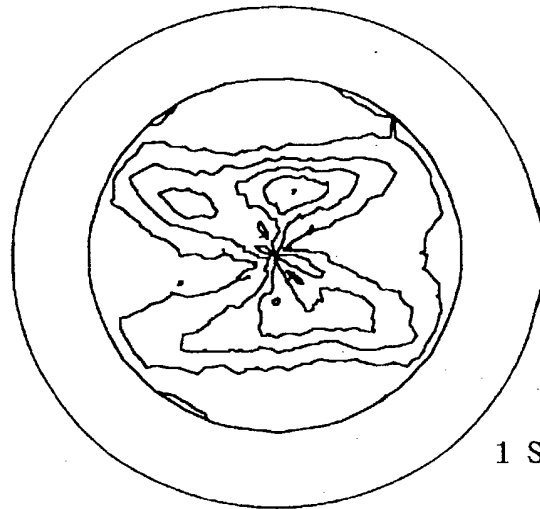
1 Scale:1,000cps

(110) Polar Figure Obtained in Sample No. 3

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FIG. 8



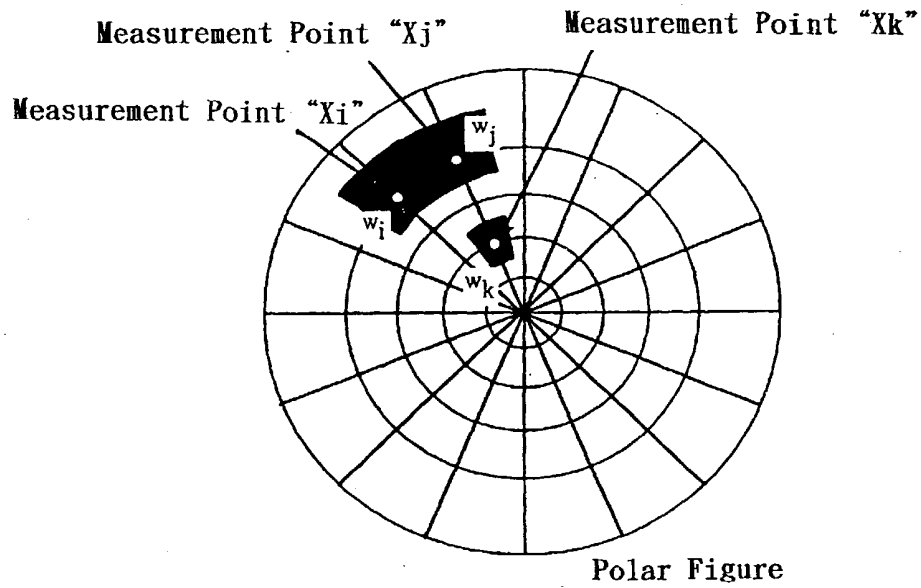
1 Scale:500cps

Swaging Direction

(110) Polar Figure Obtained in Comparative Sample

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FIG. 9



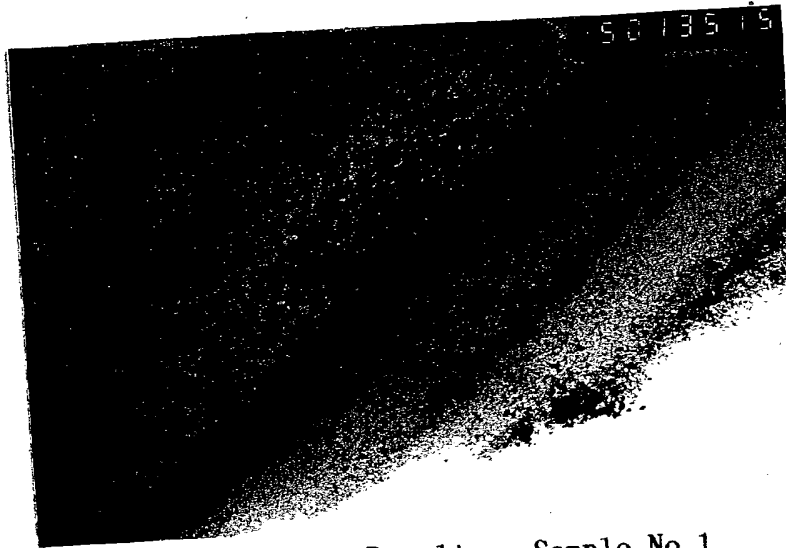
Definition of "w" Constituting Weighting
Function "W" (Only 3 examples are shown.)

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FIG. 10



TEM Observation Result on Sample No. 1
(Bright Field Image)

FIG. 11



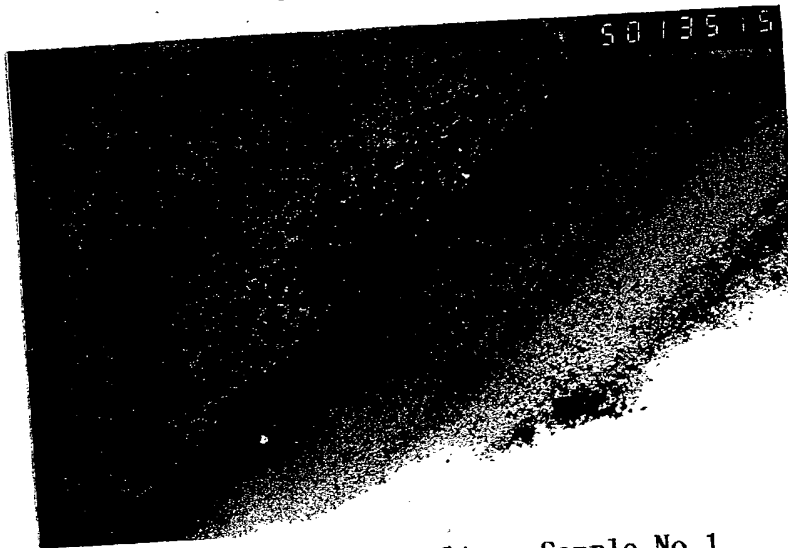
TEM Observation Result on Sample No. 1'
(Bright Field Image)

10019283 010000

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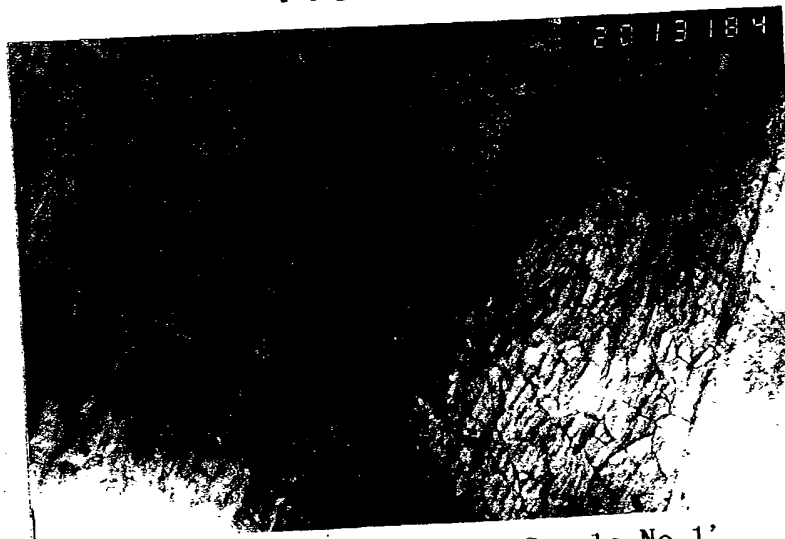
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DOCKET # 2013013519 SHEET 8 OF 13

FIG. 10



TEM Observation Result on Sample No. 1
(Bright Field Image)

FIG. 11

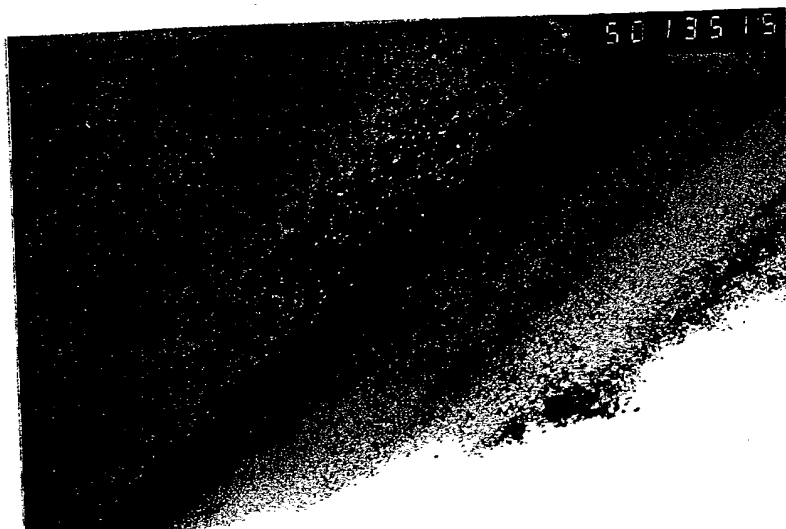


TEM Observation Result on Sample No. 1
(Bright Field Image)

2013013519

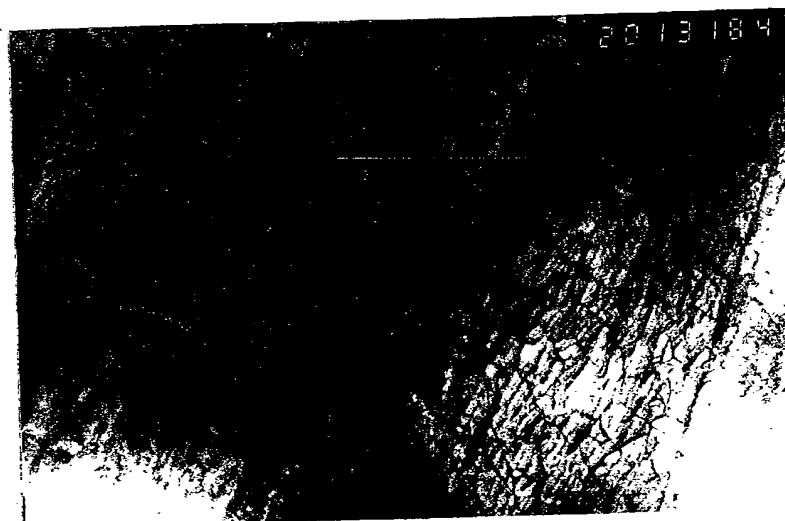
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FIG. 10



TEM Observation Result on Sample No.1
(Bright Field Image)

FIG. 11



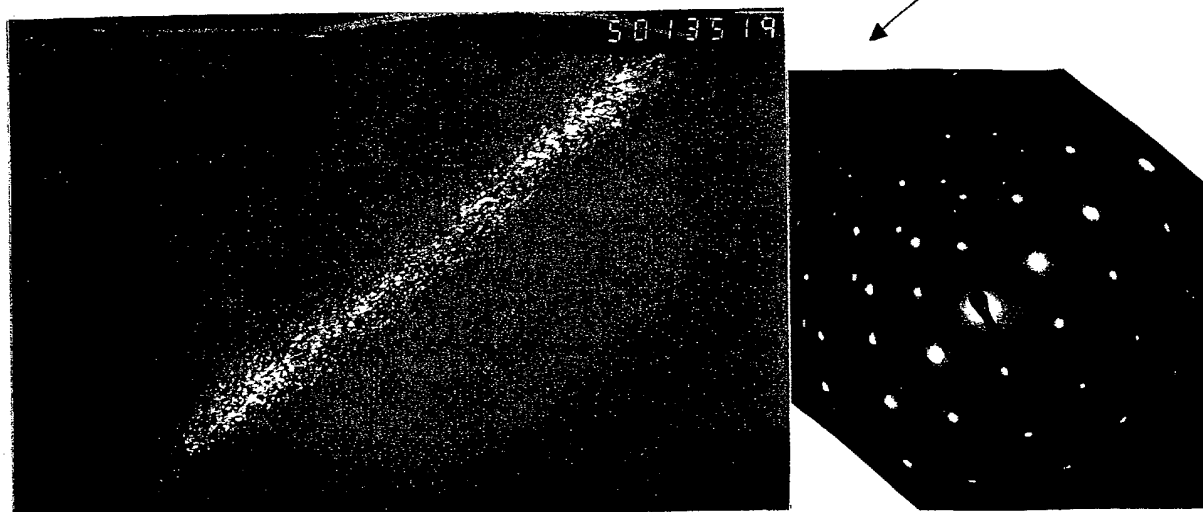
TEM Observation Result on Sample No.1'
(Bright Field Image)

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FIG. 12

Rotary Center of Goniometer

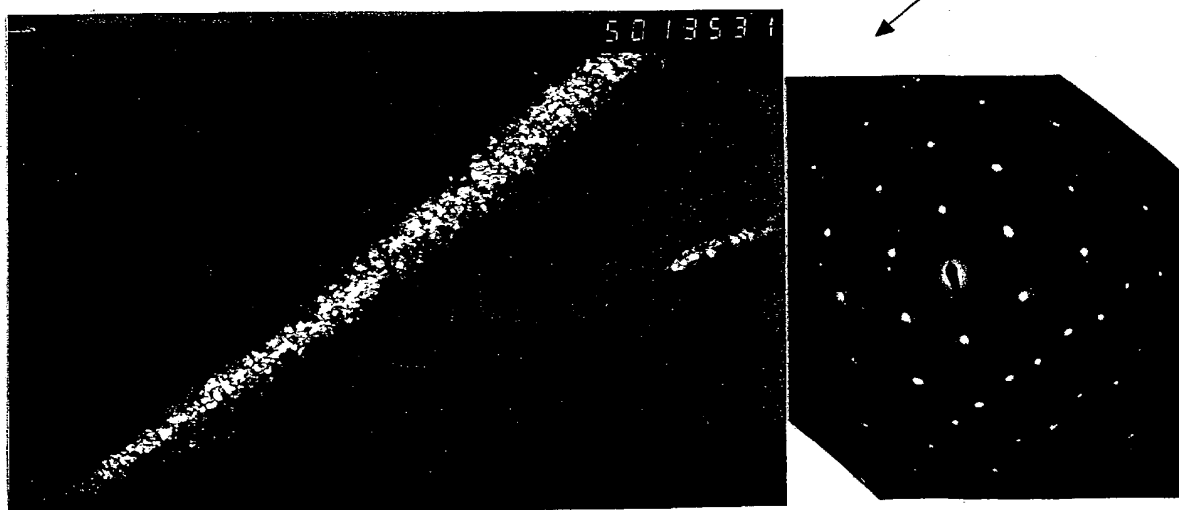


400nm

TEM Observation Result in Sample No.1
Electron Diffraction Pattern and Dark Field
Image Using 110 Diffraction Point
Value read by goniometer was -16.3° .

FIG. 13

Rotary Center of Goniometer

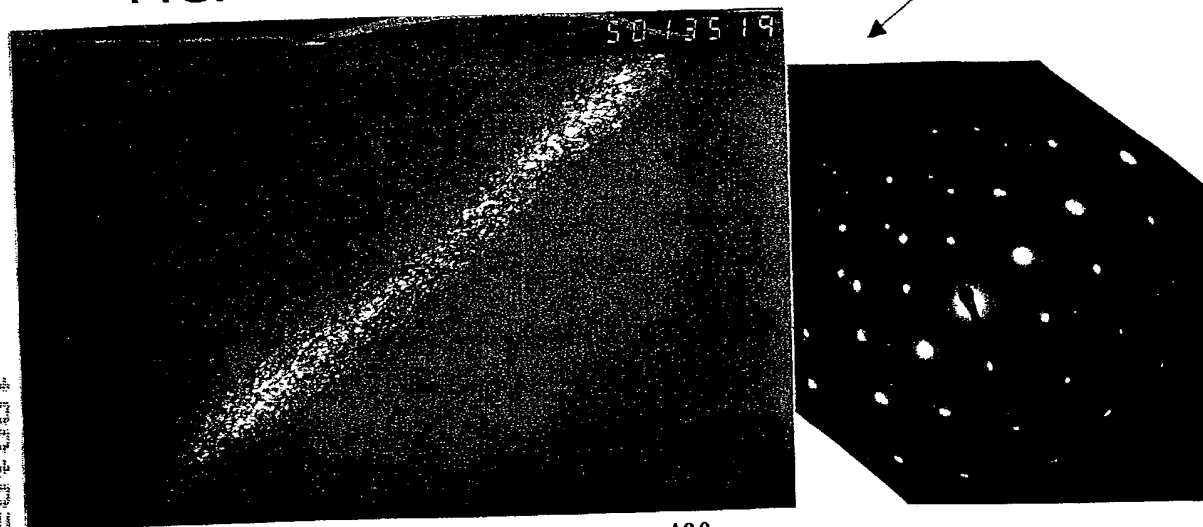


400nm

TEM Observation Result in Sample No.1
Electron Diffraction Pattern and Dark Field
Image Using 110 Diffraction Point
Value read by goniometer was 6.1° .

FIG. 12

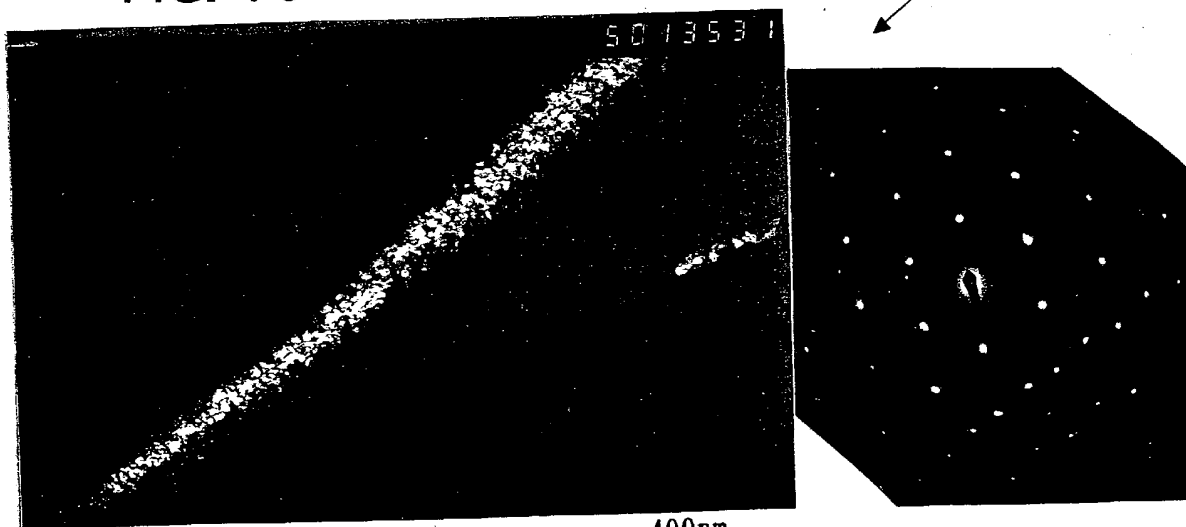
Rotary Center of Goniometer



TEM Observation Result in Sample No.1
Electron Diffraction Pattern and Dark Field
Image Using 110 Diffraction Point
Value read by goniometer was -16.3° .

FIG. 13

Rotary Center of Goniometer

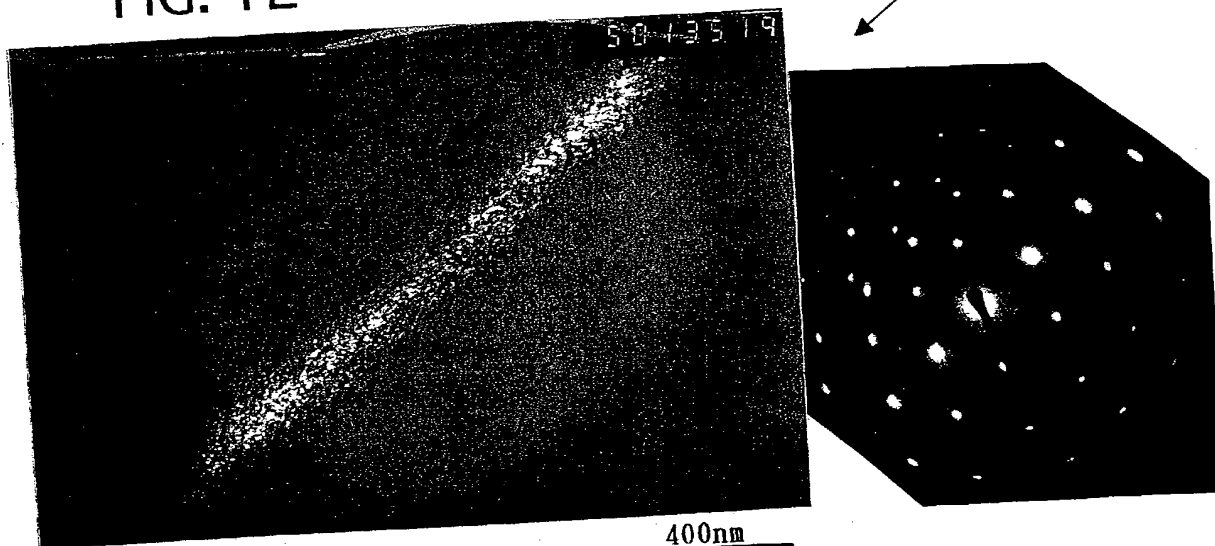


TEM Observation Result in Sample No.1
Electron Diffraction Pattern and Dark Field
Image Using 110 Diffraction Point
Value read by goniometer was 6.1° .

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FIG. 12

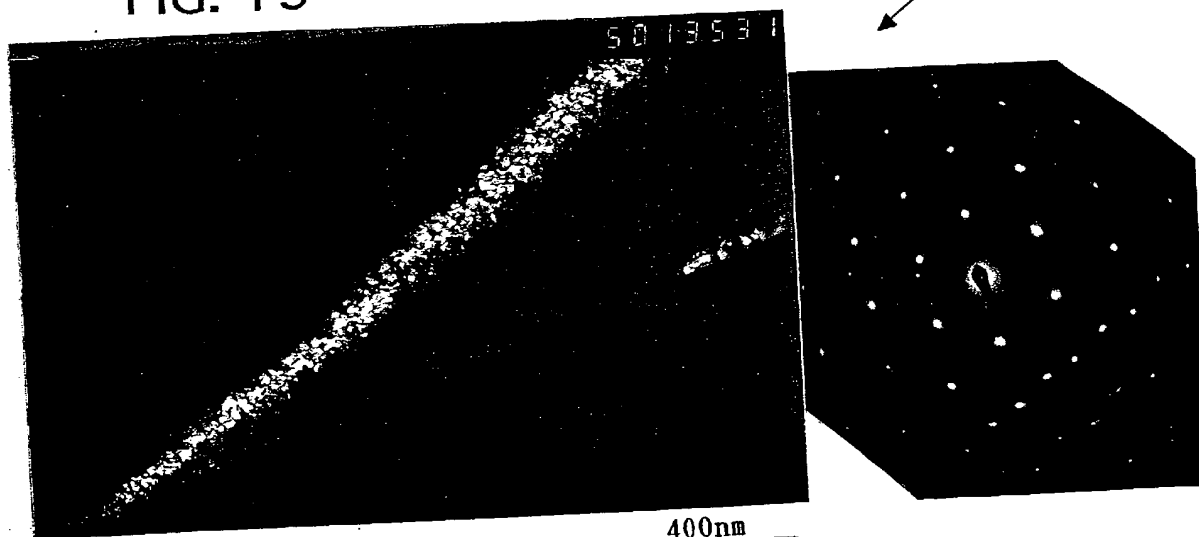
Rotary Center of Goniometer



TEM Observation Result in Sample No.1
Electron Diffraction Pattern and Dark Field
Image Using 110 Diffraction Point
Value read by goniometer was -16.3° .

FIG. 13

Rotary Center of Goniometer

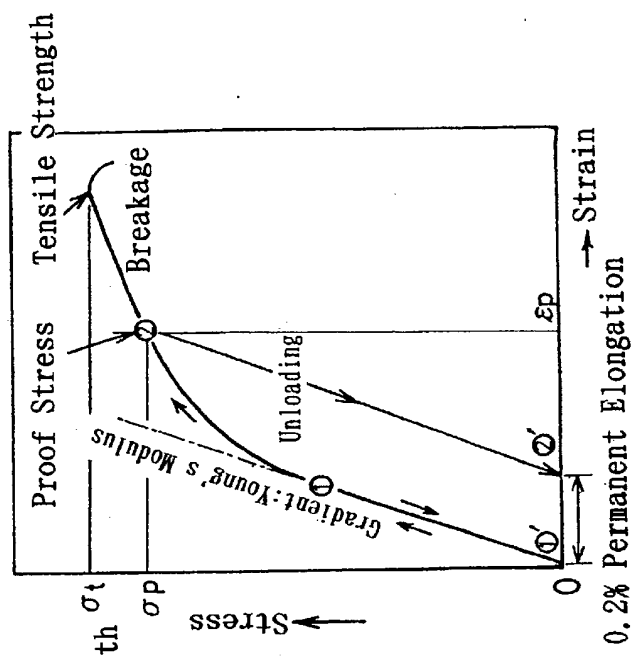


TEM Observation Result in Sample No.1
Electron Diffraction Pattern and Dark Field
Image Using 110 Diffraction Point
Value read by goniometer was 6.1° .

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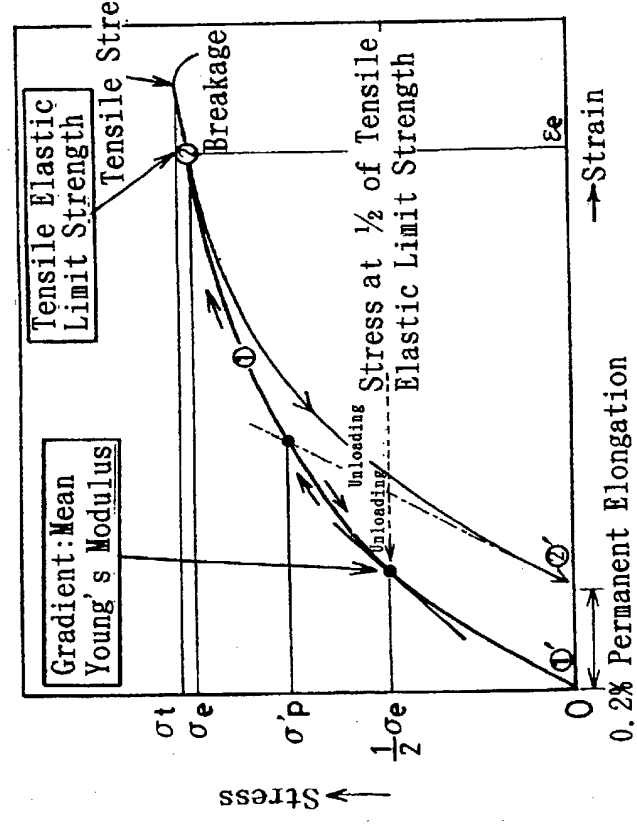
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FIG. 14B



Conventional Titanium Alloy

FIG. 14A



Titanium Alloy of Present Invention